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(11) Publication number:

0,

Generated Document.

## PATENT ABSTRACTS OF JAPAN

(21) Application number: **02269577** (51) Intl. Cl.: **C12M** 1/00 G01N 1/28

(22) Application date: **09.10.90** 

(30) Priority:

(43) Date of application

publication:

21.05.92

(84) Designated contracting

states:

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## (54) MOLECULE FIXING DEVICE

(57) Abstract:

PURPOSE: To stretch a chain high polymer and readily fix the high polymer on the face by introducing a chain high polymer solution to be fixed between electrodes and applying electron charge to the solution and orienting molecules of polymer and then fixing the molecules by heating.

CONSTITUTION: A solution of chain high polymer such as DNA to be fixed is introduced into a space between glass substrate 7 and cover glass 6 and electron charge is applied between electrodes 1 and 2 through lead lines 3 and 4. Thereby molecules thereof is straight stretched so as to become parallel to electric field by a static force and drawn to the electrode edges by effect of dielectric electrophoresis. As a result, these molecules are oriented in a form bringing ends of molecules into contact with electrodes and stretching

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the other ends vertically to the electrodes. These molecules are attached and fixed to the substrate 7 in said stretched state by heating.

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